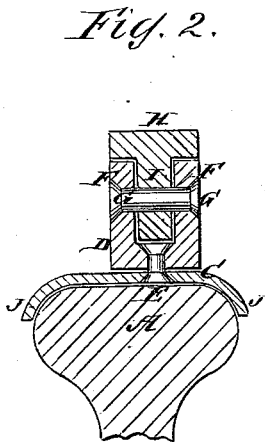
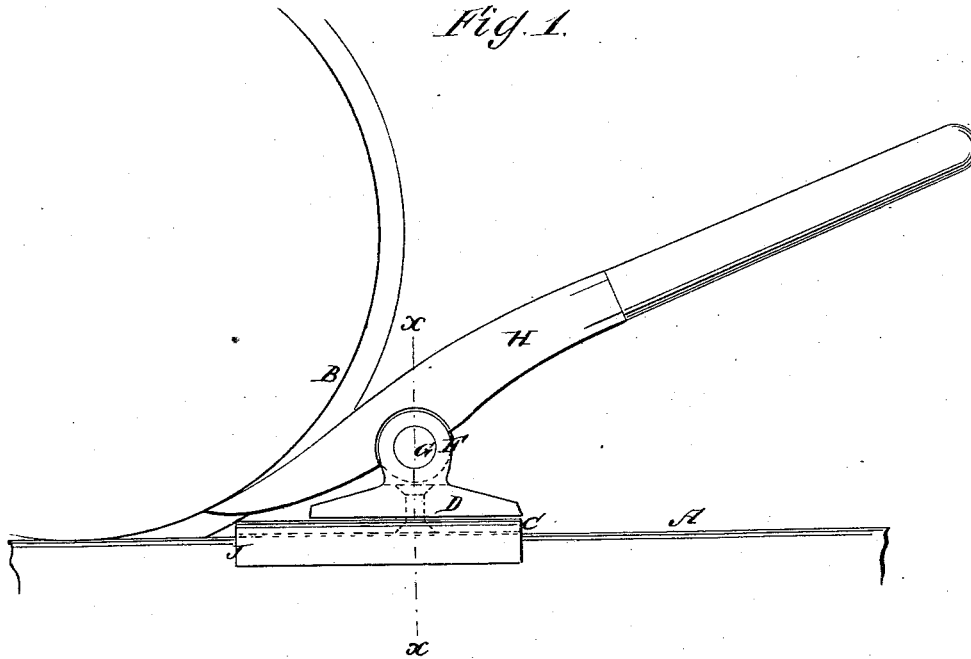


C. RAGAN.
Railroad Pinch-Bar.

No. 161,439.

Patented March 30, 1875.



WITNESSES:

E. Wolff
A. H. Terry

INVENTOR:

C. Ragan
BY *mmml*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

CORNELIUS RAGAN, OF WATERLOO, IOWA.

IMPROVEMENT IN RAILROAD PINCH-BARS.

Specification forming part of Letters Patent No. **161,439**, dated March 30, 1875; application filed January 18, 1875.

To all whom it may concern:

Be it known that I, CORNELIUS RAGAN, of Waterloo, in the county of Black Hawk and State of Iowa, have invented a new and useful Improvement in Railroad Pinch-Bars, of which the following is a specification:

The invention will first be fully described, and then pointed out in the claim.

In the accompanying drawing, Figure 1 is a side view of the pinch-bar as when in use. Fig. 2 is a vertical section of Fig. 1, taken on the line *x x*.

Similar letters of reference indicate corresponding parts.

A is the rail on which the pinch-bar is used. B represents the wheel of a locomotive or car. C is a plate, six or eight inches or more in length, which covers the rail, as seen in Fig. 2. D is the base-piece of the pinch-bar, which is connected with the plate C by the swivel-pin E. This base-piece extends upward, and has two jaws, F F, through which passes the

fulcrum-pin G of the lever H. I is a tenon on the under side of the lever, which fills the space between the jaws, and receives the fulcrum-pin, as seen in Fig. 2.

The base of the pinch-bar being swiveled to the plate C, the lever may be used quartering beneath the wheel, if desired.

As the wheel moves along on the rail, the pinch-bar and plate are pushed after it, being confined to the rail by the bended edges J J of the plate, which inclose the rail.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A railroad-pinch having jaws F F, connected by a pivot, E, with plate C, as and for the purpose specified.

CORNELIUS RAGAN.

Witnesses:

DANIEL B. STANTON,
JACOB GARBRANT.